

Product data sheet

Specifications

SQUARE D



! Discontinued

PowerPact multistandard - H-Frame - 90 A - 25 KA - Therm-Mag trip unit

NHDF36090TW

! Discontinued on: Aug 30, 2023

! End-of-service on: Dec 31, 2023

Main

Range of product	PowerPact multistandard
Range	PowerPact
Product name	H-Frame
Device short name	H-Frame
Product or component type	Circuit breaker
Device application	Distribution

Complementary

Poles description	3P
Control type	Toggle
Mounting mode	Unit mount
Mounting support	DIN rail Flush Backplate
Electrical connection	Terminal nut, line side Terminal nut, load side
[In] rated current	90 A 104 °F (40 °C)
[Ui] rated insulation voltage	750 V AC 50/60 Hz IEC 60947-2
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-2
[Ue] rated operational voltage	525 V AC 50/60 Hz IEC 60947-2 690 V AC 50/60 Hz IEC 947-2 600 V AC 50/60 Hz UL 489
Breaking capacity code	HD
Suitability for isolation	Yes
Utilisation category	Category A
Mechanical durability	4000 cycles
Electrical durability	4000 cycles
Connection pitch	1.8 in (45 mm)
Local signalling	ON/OFF indication
Contact position indicator	Yes
Trip unit name	TM
Trip unit technology	Thermal-magnetic

Trip unit protection functions	Basic protection
Trip unit rating	90 A
Display type	3 LEDs
Breaking capacity	lcu 25 kA 220/240 V - AC IEC 947-2 lcu 18 kA 380/415 V - AC IEC 947-2 lcu 18 kA 440/480 V - AC IEC 947-2 lcu 14 kA 500/525 V - AC IEC 947-2 25 kA 240 V - AC UL 489 18 kA 480 V - AC UL 489 14 kA 600 V - AC UL 489
[lcs] rated service breaking capacity	lcs 25 kA 220/240 V - AC IEC 947-2 lcs 18 kA 380/415 V - AC IEC 947-2 lcs 18 kA 440/480 V - AC IEC 947-2 lcs 14 kA 500/525 V - AC IEC 947-2
Long time pick-up adjustment type Ir	Fixed
Long time pick-up adjustment range	1 In
Short-time pick-up adjustment type Isd	Fixed
[Isd] short-time pick-up adjustment range	1450 A
Overvoltage category	II
Provision for padlocking	Non padlockable
Height	6.4 in (163 mm)
Width	4.09 in (104 mm)
Depth	3.4 in (86 mm)
Standards	IEC 60947-2 NMX J-266 NEMA AB1 UL 489 CSA C22.2 No 5 W-C-375B/GEN
Product certifications	CE CCC
Net weight	4.9 lb(US) (2.2 kg)

Environment

IP degree of protection	IP40 conforming to IEC 60529
IK degree of protection	IK07 conforming to IEC 62262
Pollution degree	3 IEC 60947-1 3 IEC 60664-1
Ambient air temperature for operation	104 °F (40 °C)
Ambient air temperature for storage	-58...185 °F (-50...85 °C)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.125 in (13.018 cm)
Package 1 Width	7.250 in (18.415 cm)
Package 1 Length	8.438 in (21.433 cm)
Package 1 Weight	4.273 lb(US) (1.938 kg)

Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	15.7 in (40.0 cm)
Package 2 Length	23.6 in (60.0 cm)
Package 2 Weight	30.0005 lb(US) (13.608 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better



Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

EU RoHS Directive

[Compliant By Exemption](#)

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins